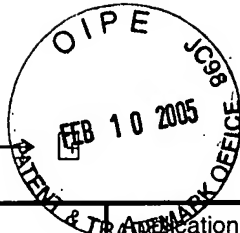


Please type a plus sign (+) inside this box

HDP/SB/21 based on PTO/SB/21 (08-00)



FW
AF

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/608,086
Filing Date	June 30, 2003
Inventor(s)	William E. RUSSELL, II et al.
Group Art Unit	3641
Examiner Name	Rick Palabrica
Attorney Docket Number	24GA05998-7

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment <input checked="" type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Letter to the Official Draftsperson and _____ Sheets of Formal Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims) <input type="checkbox"/> Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):		
<table><tr><td>Remarks</td><td></td></tr></table>			Remarks	
Remarks				

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	Gary D. Yacura	Reg. No.	35,416
Signature					
Date	February 10, 2005				

(HDP Ref: 8564-000045/US/DVA)



PATENT
24GA05998-7

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: William E. RUSSELL et al. Conf.: 8107
Appl. No.: 10/608,086 Group: 3641
Filed: June 30, 2003 Examiner: R. Palabrica
For: SYSTEM AND METHOD FOR CONTINUOUS OPTIMIZATION
OF CONTROL VARIABLES DURING OPERATION OF A
NUCLEAR REACTOR

AMENDMENT AFTER FINAL

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314
Mail Stop AF

February 10, 2005

Sir:

In reply to the Final Office Action dated November 10, 2004, the following amendments and remarks are submitted. In view of these, Applicants request reconsideration and further examination culminating in a Notice of Allowability.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 5 of this paper.